

# SCORE Search Results Details for Application 09961086 and Search Result 20080917\_142916\_us-09-961-086a-1.rapbm.

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<a href="#">Page</a>	<a href="#">List</a>	<a href="#">Overview</a>	<a href="#">FAQ</a>	<a href="#">Suggestions</a>

This page gives you Search Results detail for the Application 09961086 and Search Result 20080917\_142916\_us-09-961-086a-1.rapbm.

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OM protein - protein search, using sw model

Run on: September 18, 2008, 22:09:29 ; Search time 254 Seconds  
(without alignments)  
2487.264 Million cell updates/sec

Title: US-09-961-086A-1  
Perfect score: 3352  
Sequence: 1 MSSSNVEVFIPVSQGNTNGF.....MIVIFLTIAYLKLLFLKKYS 655

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 4190237 seqs, 964526986 residues

Total number of hits satisfying chosen parameters: 4190237

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published\_Applications\_AA\_Main:\*  
1: /ABSS/Data/CRF/ptodata/2/pubpaa/US07\_PUBCOMB.pep:\*  
2: /ABSS/Data/CRF/ptodata/2/pubpaa/US08\_PUBCOMB.pep:\*  
3: /ABSS/Data/CRF/ptodata/2/pubpaa/US09\_PUBCOMB.pep:\*  
4: /ABSS/Data/CRF/ptodata/2/pubpaa/US10A\_PUBCOMB.pep:\*  
5: /ABSS/Data/CRF/ptodata/2/pubpaa/US10B\_PUBCOMB.pep:\*  
6: /ABSS/Data/CRF/ptodata/2/pubpaa/US11A\_PUBCOMB.pep:\*  
7: /ABSS/Data/CRF/ptodata/2/pubpaa/US11B\_PUBCOMB.pep:\*  
8: /ABSS/Data/CRF/ptodata/2/pubpaa/US12\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	3352	100.0	655	3	US-09-961-086-1	Sequence 1, Appli
2	3352	100.0	655	4	US-10-405-806-13	Sequence 13, Appl
3	3352	100.0	655	6	US-11-184-860-1	Sequence 1, Appli
4	3352	100.0	655	6	US-11-674-429-13	Sequence 13, Appl
5	3346	99.8	655	3	US-09-981-353-35	Sequence 35, Appl
6	3346	99.8	655	4	US-10-120-687-61	Sequence 61, Appl
7	3346	99.8	655	4	US-10-405-806-2	Sequence 2, Appli
8	3346	99.8	655	5	US-10-874-706-24	Sequence 24, Appl
9	3346	99.8	655	5	US-10-517-310-2	Sequence 2, Appli
10	3346	99.8	655	6	US-11-124-368A-296	Sequence 296, App
11	3346	99.8	655	6	US-11-124-368A-297	Sequence 297, App
12	3346	99.8	655	6	US-11-333-542-6	Sequence 6, Appli
13	3346	99.8	655	6	US-11-371-354-63697	Sequence 63697, A
14	3346	99.8	655	6	US-11-443-428A-811925	Sequence 811925,
15	3346	99.8	655	6	US-11-443-428A-811926	Sequence 811926,
16	3346	99.8	655	6	US-11-443-428A-811927	Sequence 811927,
17	3346	99.8	655	6	US-11-443-428A-811928	Sequence 811928,
18	3346	99.8	655	6	US-11-438-790-61	Sequence 61, Appl
19	3346	99.8	655	6	US-11-674-429-2	Sequence 2, Appli
20	3346	99.8	655	8	US-12-055-089-2	Sequence 2, Appli
21	3346	99.8	688	6	US-11-443-428A-811930	Sequence 811930,
22	3346	99.8	775	6	US-11-443-428A-811929	Sequence 811929,
23	3342	99.7	655	6	US-11-333-542-8	Sequence 8, Appli
24	3338	99.6	655	3	US-09-866-866A-27	Sequence 27, Appl
25	3331	99.4	655	3	US-09-866-866A-10	Sequence 10, Appl
26	3331	99.4	655	4	US-10-090-455-5	Sequence 5, Appli
27	3331	99.4	655	6	US-11-037-713-31	Sequence 31, Appl
28	3331	99.4	655	6	US-11-333-542-7	Sequence 7, Appli
29	3331	99.4	655	6	US-11-588-744-2	Sequence 2, Appli
30	3225	96.2	655	6	US-11-333-542-2	Sequence 2, Appli
31	3223.5	96.2	654	6	US-11-333-542-5	Sequence 5, Appli
32	3216	95.9	643	5	US-10-692-382-3396	Sequence 3396, Ap
33	3216	95.9	643	5	US-10-692-382-3398	Sequence 3398, Ap
34	3053.5	91.1	604	3	US-09-745-763-197	Sequence 197, App
35	3045	90.8	632	6	US-11-443-428A-811931	Sequence 811931,
36	2927	87.3	623	6	US-11-443-428A-811932	Sequence 811932,
37	2862	85.4	658	6	US-11-427-230-185	Sequence 185, App
38	2757	82.2	657	3	US-09-866-866A-14	Sequence 14, Appl
39	2325	69.4	456	5	US-10-917-503-12962	Sequence 12962, A
40	1730.5	51.6	688	5	US-10-692-382-3393	Sequence 3393, Ap
41	835.5	24.9	1049	4	US-10-369-493-1520	Sequence 1520, Ap
42	833	24.9	1095	5	US-10-449-902-41563	Sequence 41563, A
43	821.5	24.5	1078	6	US-11-431-855-20717	Sequence 20717, A
44	812.5	24.2	1038	6	US-11-431-855-26719	Sequence 26719, A
45	812	24.2	663	4	US-10-108-605-245	Sequence 245, App

## ALIGNMENTS

RESULT 1  
US-09-961-086-1  
; Sequence 1, Application US/09961086  
; Publication No. US20030036645A1  
; GENERAL INFORMATION:  
; APPLICANT: UNIVERSITY OF MARYLAND, BALTIMORE  
; APPLICANT: ROSS, Douglas D.  
; APPLICANT: DOYLE, L. Austin  
; APPLICANT: ABRUZZO, Lynne  
; TITLE OF INVENTION: BREAST CANCER RESISTANCE PROTEIN (BCRP) AND THE DNA  
; TITLE OF INVENTION: WHICH ENCODES IT  
; FILE REFERENCE: EP19376-019  
; CURRENT APPLICATION NUMBER: US/09/961,086  
; CURRENT FILING DATE: 2001-09-21  
; PRIOR APPLICATION NUMBER: US 60/073,763  
; PRIOR FILING DATE: 1998-02-05  
; PRIOR APPLICATION NUMBER: PCT/US99/02577  
; PRIOR FILING DATE: 1999-02-05  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 655  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-961-086-1

Query Match 100.0%; Score 3352; DB 3; Length 655;  
Best Local Similarity 100.0%; Pred. No. 6.5e-288;  
Matches 655; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE	60
Db	1	MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE	60
Qy	61	KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPANFKCN	120
Db	61	KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPANFKCN	120
Qy	121	SGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT	180
Db	121	SGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT	180
Qy	181	QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIF	240
Db	181	QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIF	240
Qy	241	SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Db	241	SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Qy	301	DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKSKK	360
Db	301	DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKSKK	360
Qy	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFGLKNS	420

Db	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFGLKNDS	420
Qy	421	TGIQNRAGVLFFLTTNQCFSSVSARELVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP	480
Db	421	TGIQNRAGVLFFLTTNQCFSSVSARELVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP	480
Qy	481	MTMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLL	540
Db	481	MTMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLL	540
Qy	541	MTICFVFMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFPCPLNATGN	600
Db	541	MTICFVFMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFPCPLNATGN	600
Qy	601	NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS	655
Db	601	NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS	655

RESULT 2  
US-10-405-806-13  
; Sequence 13, Application US/10405806  
; Publication No. US20030232362A1  
; GENERAL INFORMATION:  
; APPLICANT: KOMATANI, HIDEYA  
; APPLICANT: HARA, YOSHIKAZU  
; APPLICANT: KOTANI, HIDEHITO  
; APPLICANT: NAKAGAWA, RINAKO  
; TITLE OF INVENTION: DRUG RESISTANT GENE AND USE THEREOF  
; FILE REFERENCE: 234985US0CONT  
; CURRENT APPLICATION NUMBER: US/10/405,806  
; CURRENT FILING DATE: 2003-04-03  
; PRIOR APPLICATION NUMBER: PCT/JP01/08112  
; PRIOR FILING DATE: 2001-09-18  
; PRIOR APPLICATION NUMBER: JP2000-303441  
; PRIOR FILING DATE: 2000-10-03  
; NUMBER OF SEQ ID NOS: 17  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 13  
; LENGTH: 655  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: ABCG2 482Tmutant sequence  
US-10-405-806-13

Query Match 100.0%; Score 3352; DB 4; Length 655;  
Best Local Similarity 100.0%; Pred. No. 6.5e-288;  
Matches 655; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE	60
Db	1	MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE	60

Qy	61	KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPANFKCN	120
Db	61	KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPANFKCN	120
Qy	121	SGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT	180
Db	121	SGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT	180
Qy	181	QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIF	240
Db	181	QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIF	240
Qy	241	SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Db	241	SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Qy	301	DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK	360
Db	301	DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK	360
Qy	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFGLKNDS	420
Db	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFGLKNDS	420
Qy	421	TGIQNRAGVLFFLTNNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP	480
Db	421	TGIQNRAGVLFFLTNNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP	480
Qy	481	MTMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLL	540
Db	481	MTMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLL	540
Qy	541	MTICFVFMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFCPGLNATGN	600
Db	541	MTICFVFMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFCPGLNATGN	600
Qy	601	NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS	655
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RESULT 3

US-11-184-860-1

; Sequence 1, Application US/11184860

; Publication No. US20050272684A1

; GENERAL INFORMATION:

; APPLICANT: UNIVERSITY OF MARYLAND, BALTIMORE

; APPLICANT: ROSS, Douglas D.

; APPLICANT: DOYLE, L. Austin

; APPLICANT: ABRUZZO, Lynne

; TITLE OF INVENTION: BREAST CANCER RESISTANCE PROTEIN (BCRP) AND THE DNA

; TITLE OF INVENTION: WHICH ENCODES IT

; FILE REFERENCE: EP19376-019

; CURRENT APPLICATION NUMBER: US/11/184,860

; CURRENT FILING DATE: 2005-07-20

; PRIOR APPLICATION NUMBER: US/09/961,086  
; PRIOR FILING DATE: 2001-09-21  
; PRIOR APPLICATION NUMBER: US 60/073,763  
; PRIOR FILING DATE: 1998-02-05  
; PRIOR APPLICATION NUMBER: PCT/US99/02577  
; PRIOR FILING DATE: 1999-02-05  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 655  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-184-860-1

Query Match 100.0%; Score 3352; DB 6; Length 655;  
Best Local Similarity 100.0%; Pred. No. 6.5e-288;  
Matches 655; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE	60
Db	1	MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE	60
Qy	61	KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPANFKCN	120
Db	61	KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPANFKCN	120
Qy	121	SGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT	180
Db	121	SGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT	180
Qy	181	QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSSTANAVLLLLKRMSKQGRTIIF	240
Db	181	QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSSTANAVLLLLKRMSKQGRTIIF	240
Qy	241	SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Db	241	SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Qy	301	DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK	360
Db	301	DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK	360
Qy	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFGLKNDS	420
Db	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFGLKNDS	420
Qy	421	TGIQNRAGVLFFLTNNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP	480
Db	421	TGIQNRAGVLFFLTNNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP	480
Qy	481	MTMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLL	540
Db	481	MTMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLL	540
Qy	541	MTICFVFMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFCPGLNATGN	600

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Qy      601 NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS 655
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RESULT 4

US-11-674-429-13

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; Sequence 13, Application US/11674429
; Publication No. US20070141619A1
; GENERAL INFORMATION:
; APPLICANT: KOMATANI, HIDEYA
; APPLICANT: HARA, YOSHIKAZU
; APPLICANT: KOTANI, HIDEHITO
; APPLICANT: NAKAGAWA, RINAKO
; TITLE OF INVENTION: DRUG RESISTANT GENE AND USE THEREOF
; FILE REFERENCE: 234985US0CONT
; CURRENT APPLICATION NUMBER: US/11/674,429
; CURRENT FILING DATE: 2007-02-13
; PRIOR APPLICATION NUMBER: US/10/405,806
; PRIOR FILING DATE: 2003-04-03
; PRIOR APPLICATION NUMBER: PCT/JP01/08112
; PRIOR FILING DATE: 2001-09-18
; PRIOR APPLICATION NUMBER: JP2000-303441
; PRIOR FILING DATE: 2000-10-03
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 13
; LENGTH: 655
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: ABCG2 482Tmutant sequence
US-11-674-429-13
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Query Match          100.0%; Score 3352; DB 6; Length 655;
Best Local Similarity 100.0%; Pred. No. 6.5e-288;
Matches 655; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy      1  MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE 60
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Db      1  MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE 60

Qy      61  KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPANFKCN 120
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      61  KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPANFKCN 120

Qy      121 SGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT 180
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      121 SGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT 180

Qy      181 QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSSTANAVLLLLKRMSKQGRTIIF 240
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Db	181	QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIF	240
Qy	241	SIHQPRYSIFKLFDSLTLTLLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Db	241	SIHQPRYSIFKLFDSLTLTLLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
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Db	301	DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK	360
Qy	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFGLKNDS	420
Db	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFGLKNDS	420
Qy	421	TGIQNRAGVLFLLTTNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP	480
Db	421	TGIQNRAGVLFLLTTNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP	480
Qy	481	MTMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLL	540
Db	481	MTMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLL	540
Qy	541	MTICFVFMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFCPGLNATGN	600
Db	541	MTICFVFMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFCPGLNATGN	600
Qy	601	NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS	655
Db	601	NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS	655

RESULT 5

US-09-981-353-35

; Sequence 35, Application US/09981353

; Patent No. US20020160382A1

; GENERAL INFORMATION:

; APPLICANT: Lasek, Amy W.

; APPLICANT: Jones, David A.

; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER

; FILE REFERENCE: PA-0038 US

; CURRENT APPLICATION NUMBER: US/09/981,353

; CURRENT FILING DATE: 2001-10-11

; NUMBER OF SEQ ID NOS: 194

; SOFTWARE: PERL Program

; SEQ ID NO 35

; LENGTH: 655

; TYPE: PRT

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: misc\_feature

; OTHER INFORMATION: Incyte ID No. US20020160382A1 5517972CD1

US-09-981-353-35

Query Match 99.8%; Score 3346; DB 3; Length 655;

Best Local Similarity 99.8%; Pred. No. 2.2e-287;



	Matches	654;	Conservative	0;	Mismatches	1;	Indels	0;	Gaps	0;
Qy	1	MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE	60							
Db	1	MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE	60							
Qy	61	KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPANFKCN	120							
Db	61	KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPANFKCN	120							
Qy	121	SGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT	180							
Db	121	SGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT	180							
Qy	181	QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIF	240							
Db	181	QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIF	240							
Qy	241	SIHQPRYSIFKLFDSLTLASGRLMFHGPQAEALGYFESAGYHCEAYNNPADFFLDIING	300							
Db	241	SIHQPRYSIFKLFDSLTLASGRLMFHGPQAEALGYFESAGYHCEAYNNPADFFLDIING	300							
Qy	301	DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK	360							
Db	301	DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK	360							
Qy	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFGLKNDS	420							
Db	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFGLKNDS	420							
Qy	421	TGIQNRAGVLFFLTNNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP	480							
Db	421	TGIQNRAGVLFFLTNNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP	480							
Qy	481	MTMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLL	540							
Db	481	MRMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLL	540							
Qy	541	MTICFVFMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFCPGLNATGN	600							
Db	541	MTICFVFMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFCPGLNATGN	600							
Qy	601	NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS	655							
Db	601	NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS	655							

RESULT 6

US-10-120-687-61

; Sequence 61, Application US/10120687

; Publication No. US20030082155A1

; GENERAL INFORMATION:

; APPLICANT: Massachusetts General Hospital

; TITLE OF INVENTION: Stem Cells of the Islets of Langerhans and Their Use in Treating Diabetes

; TITLE OF INVENTION: Mellitus  
; FILE REFERENCE: 3284/1235B  
; CURRENT APPLICATION NUMBER: US/10/120,687  
; CURRENT FILING DATE: 2002-04-11  
; PRIOR APPLICATION NUMBER: US60/169082  
; PRIOR FILING DATE: 1999-12-06  
; PRIOR APPLICATION NUMBER: US 09/963,875  
; PRIOR FILING DATE: 2001-09-25  
; PRIOR APPLICATION NUMBER: US 60/215109  
; PRIOR FILING DATE: 2000-06-28  
; PRIOR APPLICATION NUMBER: US 60/238880  
; PRIOR FILING DATE: 2000-10-06  
; PRIOR APPLICATION NUMBER: US 09/731261  
; PRIOR FILING DATE: 2000-12-06  
; NUMBER OF SEQ ID NOS: 61  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 61  
; LENGTH: 655  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-120-687-61

Query Match 99.8%; Score 3346; DB 4; Length 655;  
Best Local Similarity 99.8%; Pred. No. 2.2e-287;  
Matches 654; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy	1	MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE	60
Db	1	MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE	60
Qy	61	KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPANFKCN	120
Db	61	KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPANFKCN	120
Qy	121	SGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT	180
Db	121	SGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT	180
Qy	181	QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIF	240
Db	181	QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIF	240
Qy	241	SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Db	241	SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Qy	301	DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK	360
Db	301	DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK	360
Qy	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFGLKNDS	420
Db	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFGLKNDS	420
Qy	421	TGIQNRAGVLFFLTNNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP	480

```

      |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      421 TGIQNRAGVLFFLTTNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP 480
Qy      481 MTMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLL 540
      | |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      481 MRMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLL 540
Qy      541 MTICFVFMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFCPGLNATGN 600
      |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      541 MTICFVFMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFCPGLNATGN 600
Qy      601 NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS 655
      |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      601 NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS 655
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RESULT 7

US-10-405-806-2

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; Sequence 2, Application US/10405806
; Publication No. US20030232362A1
; GENERAL INFORMATION:
; APPLICANT: KOMATANI, HIDEYA
; APPLICANT: HARA, YOSHIKAZU
; APPLICANT: KOTANI, HIDEHITO
; APPLICANT: NAKAGAWA, RINAKO
; TITLE OF INVENTION: DRUG RESISTANT GENE AND USE THEREOF
; FILE REFERENCE: 234985US0CONT
; CURRENT APPLICATION NUMBER: US/10/405,806
; CURRENT FILING DATE: 2003-04-03
; PRIOR APPLICATION NUMBER: PCT/JP01/08112
; PRIOR FILING DATE: 2001-09-18
; PRIOR APPLICATION NUMBER: JP2000-303441
; PRIOR FILING DATE: 2000-10-03
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 655
; TYPE: PRT
; ORGANISM: Homo sapiens
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US-10-405-806-2

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Query Match          99.8%;  Score 3346;  DB 4;  Length 655;
Best Local Similarity 99.8%;  Pred. No. 2.2e-287;
Matches 654;  Conservative 0;  Mismatches 1;  Indels 0;  Gaps 0;
```

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Qy      1  MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE 60
      |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1  MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE 60
Qy      61 KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPANFKCN 120
      |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      61 KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPANFKCN 120
Qy      121 SGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT 180
      |||||||||||||||||||||||||||||||||||||||||||||||||||||||
```

Db	121	SGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT	180
Qy	181	QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIF	240
Db	181	QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIF	240
Qy	241	SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Db	241	SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Qy	301	DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK	360
Db	301	DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK	360
Qy	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFGLKNDS	420
Db	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFGLKNDS	420
Qy	421	TGIQNRAGVLFFLTNNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP	480
Db	421	TGIQNRAGVLFFLTNNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP	480
Qy	481	MTMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLL	540
Db	481	MRMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLL	540
Qy	541	MTICFVFMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFPCPLNATGN	600
Db	541	MTICFVFMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFPCPLNATGN	600
Qy	601	NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS	655
Db	601	NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS	655

RESULT 8

US-10-874-706-24

; Sequence 24, Application US/10874706

; Publication No. US20050048610A1

; GENERAL INFORMATION:

; APPLICANT: INCYTE GENOMICS, INC.

; APPLICANT: LAL, Preeti

; APPLICANT: YANG, Junming

; APPLICANT: YUE, Henry

; APPLICANT: HILLMAN, Jennifer L.

; APPLICANT: TANG, Y. Tom

; APPLICANT: BANDMAN, Olga

; APPLICANT: BURFORD, Neil

; APPLICANT: BAUGHN, Mariah R.

; APPLICANT: AZIMZAI, Yalda

; APPLICANT: LU, Dyung Aina M.

; APPLICANT: AU-YOUNG, Janice

; APPLICANT: PATTERSON, Chandra

; TITLE OF INVENTION: HUMAN TRANSPORT PROTEINS

; FILE REFERENCE: PF-0709 PCT

Query Match 99.8%; Score 3346; DB 5; Length 655;  
Best Local Similarity 99.8%; Pred. No. 2.2e-287;  
Matches 654; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

http://es/ScoreAccessWeb/GetItem.action?AppId=09961...42916\_us-09-961-086a-1.rapbm&ItemType=4&startByte=0 (13 of 23)9/22/2008 12:06:03 PM

Db 481 MRMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLL 540

Qy 541 MTICFVFMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFCPGLNATGN 600  
|||||

Db 541 MTICFVFMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFCPGLNATGN 600

Qy 601 NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS 655  
|||||

Db 601 NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS 655

RESULT 9

US-10-517-310-2

; Sequence 2, Application US/10517310

; Publication No. US20060057579A1

; GENERAL INFORMATION:

; APPLICANT: KOTANI, HIDEHITO

; APPLICANT: MIZUARAI, SHINJI

; TITLE OF INVENTION: METHOD FOR PREDICTING A DRUG TRANSPORT CAPABILITY BY ABCG2

; TITLE OF INVENTION: POLYMORPHISMS

; FILE REFERENCE: 262507US0PCT

; CURRENT APPLICATION NUMBER: US/10/517,310

; CURRENT FILING DATE: 2004-12-17

; PRIOR APPLICATION NUMBER: PCT/JP03/07534

; PRIOR FILING DATE: 2003-06-13

; PRIOR APPLICATION NUMBER: JP 2002-175806

; PRIOR FILING DATE: 2002-06-17

; NUMBER OF SEQ ID NOS: 68

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 2

; LENGTH: 655

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-517-310-2

Query Match 99.8%; Score 3346; DB 5; Length 655;

Best Local Similarity 99.8%; Pred. No. 2.2e-287;

Matches 654; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE 60  
|||||

Db 1 MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE 60

Qy 61 KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPANFKCN 120  
|||||

Db 61 KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPANFKCN 120

Qy 121 SGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT 180  
|||||

Db 121 SGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT 180

Qy 181 QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIF 240  
|||||

Db 181 QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIF 240

Qy	241	SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Db	241	SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Qy	301	DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAIEIYVNSSFYKETKAELHQLSGGEKKKK	360
Db	301	DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAIEIYVNSSFYKETKAELHQLSGGEKKKK	360
Qy	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFGLKNDS	420
Db	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFGLKNDS	420
Qy	421	TGIQNRAGVLFFLTNNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP	480
Db	421	TGIQNRAGVLFFLTNNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP	480
Qy	481	MTMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLL	540
Db	481	MRMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLL	540
Qy	541	MTICFVFMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFCPGLNATGN	600
Db	541	MTICFVFMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFCPGLNATGN	600
Qy	601	NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS	655
Db	601	NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS	655

RESULT 10  
US-11-124-368A-296  
; Sequence 296, Application US/11124368A  
; Publication No. US20050287559A1  
; GENERAL INFORMATION:  
; APPLICANT: Michele Cargill  
; APPLICANT: James J. Devlin  
; APPLICANT: May Luke  
; TITLE OF INVENTION: Genetic Polymorphisms Associated with  
; TITLE OF INVENTION: Vascular Diseases, Methods of Detection and Uses Thereof  
; FILE REFERENCE: CL001524  
; CURRENT APPLICATION NUMBER: US/11/124,368A  
; CURRENT FILING DATE: 2005-05-09  
; PRIOR APPLICATION NUMBER: US 60/568,845  
; PRIOR FILING DATE: 2004-05-07  
; PRIOR APPLICATION NUMBER: US 60/625,936  
; PRIOR FILING DATE: 2004-11-09  
; NUMBER OF SEQ ID NOS: 21112  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 296  
; LENGTH: 655  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-124-368A-296

Query Match 99.8%; Score 3346; DB 6; Length 655;

Best Local Similarity 99.8%; Pred. No. 2.2e-287;  
Matches 654; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Qy      1  MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE 60
      ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1  MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE 60

Qy     61  KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPANFKCN 120
      ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     61  KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPANFKCN 120

Qy    121  SGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT 180
      ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    121  SGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT 180

Qy    181  QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIF 240
      ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    181  QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIF 240

Qy    241  SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING 300
      ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    241  SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING 300

Qy    301  DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK 360
      ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    301  DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK 360

Qy    361  ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFGLKNDS 420
      ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    361  ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFGLKNDS 420

Qy    421  TGIQNRAGVLFFLTNNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP 480
      ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    421  TGIQNRAGVLFFLTNNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP 480

Qy    481  MTMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLL 540
      | |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    481  MRMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLL 540

Qy    541  MTICFVFMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFPCPLNATGN 600
      ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    541  MTICFVFMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFPCPLNATGN 600

Qy    601  NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS 655
      ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    601  NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS 655
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## RESULT 11

US-11-124-368A-297

; Sequence 297, Application US/11124368A

; Publication No. US20050287559A1

; GENERAL INFORMATION:

; APPLICANT: Michele Cargill

; APPLICANT: James J. Devlin



```
Query Match          99.8%;  Score 3346;  DB 6;  Length 655;
Best Local Similarity 99.8%;  Pred. No. 2.2e-287;
Matches 654;  Conservative 0;  Mismatches 1;  Indels 0;  Gaps 0;
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http://es/ScoreAccessWeb/GetItem.action?AppId=09961...42916\_us-09-961-086a-1.rapbm&ItemType=4&startByte=0 (17 of 23)9/22/2008 12:06:03 PM

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Query Match      99.8%;   Score 3346;   DB 6;   Length 655;
Best Local Similarity 99.8%;   Pred. No. 2.2e-287;
Matches 654;   Conservative 0;   Mismatches 1;   Indels 0;   Gaps 0;
```

http://es/ScoreAccessWeb/GetItem.action?AppId=09961...42916\_us-09-961-086a-1.rapbm&ItemType=4&startByte=0 (18 of 23)9/22/2008 12:06:03 PM

Qy	301	DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK	360
Db	301	DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK	360
Qy	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFGLKNDS	420
Db	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFGLKNDS	420
Qy	421	TGIQNRAGVLFFLTNNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP	480
Db	421	TGIQNRAGVLFFLTNNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP	480
Qy	481	MTMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLL	540
Db	481	MRMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLL	540
Qy	541	MTICFVFMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFCPGLNATGN	600
Db	541	MTICFVFMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFCPGLNATGN	600
Qy	601	NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS	655
Db	601	NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS	655

RESULT 13

US-11-371-354-63697

; Sequence 63697, Application US/11371354  
; Publication No. US20060275794A1  
; GENERAL INFORMATION:  
; APPLICANT: CARRINO, JOHN  
; APPLICANT: LIANG, FENG  
; TITLE OF INVENTION: COLLECTIONS OF MATCHED BIOLOGICAL REAGENTS AND METHODS FOR  
; TITLE OF INVENTION: IDENTIFYING MATCHED REAGENTS  
; FILE REFERENCE: INV-1005-UT2  
; CURRENT APPLICATION NUMBER: US/11/371,354  
; CURRENT FILING DATE: 2006-03-07  
; PRIOR APPLICATION NUMBER: 60/673,045  
; PRIOR FILING DATE: 2005-04-19  
; PRIOR APPLICATION NUMBER: 60/665,199  
; PRIOR FILING DATE: 2005-03-25  
; PRIOR APPLICATION NUMBER: 60/665,200  
; PRIOR FILING DATE: 2005-03-25  
; PRIOR APPLICATION NUMBER: 60/659,493  
; PRIOR FILING DATE: 2005-03-07  
; PRIOR APPLICATION NUMBER: 60/659,492  
; PRIOR FILING DATE: 2005-03-07  
; PRIOR APPLICATION NUMBER: 60/953,586  
; PRIOR FILING DATE: 2005-02-15  
; PRIOR APPLICATION NUMBER: 60/651,390  
; PRIOR FILING DATE: 2005-02-08  
; NUMBER OF SEQ ID NOS: 78682  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 63697

; LENGTH: 655  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-371-354-63697

Query Match 99.8%; Score 3346; DB 6; Length 655;  
Best Local Similarity 99.8%; Pred. No. 2.2e-287;  
Matches 654; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy	1	MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE	60
Db	1	MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE	60
Qy	61	KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPANFKCN	120
Db	61	KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPANFKCN	120
Qy	121	SGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT	180
Db	121	SGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT	180
Qy	181	QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIF	240
Db	181	QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIF	240
Qy	241	SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Db	241	SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Qy	301	DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK	360
Db	301	DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK	360
Qy	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFGLKNDS	420
Db	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFGLKNDS	420
Qy	421	TGIQNRAGVLFFLTNNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP	480
Db	421	TGIQNRAGVLFFLTNNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP	480
Qy	481	MTMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLL	540
Db	481	MRMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLL	540
Qy	541	MTICFVFMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFPCPLNATGN	600
Db	541	MTICFVFMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFPCPLNATGN	600
Qy	601	NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS	655
Db	601	NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS	655

US-11-443-428A-811925  
; Sequence 811925, Application US/11443428A  
; Publication No. US20070083334A1  
; GENERAL INFORMATION:  
; APPLICANT: Mintz, Liat  
; APPLICANT: Xie, Hanqing  
; APPLICANT: Dahari, Dvir  
; APPLICANT: Levanon, Erez  
; APPLICANT: Freilich, Shiri  
; APPLICANT: Beck, Nili  
; APPLICANT: Zhu, Wei-Yong  
; APPLICANT: Wasserman, Alon  
; APPLICANT: Hermesh, Chen  
; APPLICANT: Azar, Idit  
; APPLICANT: Bernstein, Jeanne  
; TITLE OF INVENTION: METHODS AND SYSTEMS USEFUL FOR ANNOTATING BIOMOLECULAR SEQUENCES  
; FILE REFERENCE: 02/23929  
; CURRENT APPLICATION NUMBER: US/11/443,428A  
; CURRENT FILING DATE: 2006-05-31  
; NUMBER OF SEQ ID NOS: 1034312  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 811925  
; LENGTH: 655  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-443-428A-811925

Query Match 99.8%; Score 3346; DB 6; Length 655;  
Best Local Similarity 99.8%; Pred. No. 2.2e-287;  
Matches 654; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy	1	MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE	60
Db	1	MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE	60
Qy	61	KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPANFKCN	120
Db	61	KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPANFKCN	120
Qy	121	SGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT	180
Db	121	SGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT	180
Qy	181	QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIF	240
Db	181	QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIF	240
Qy	241	SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Db	241	SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Qy	301	DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAIEIYVNSSFYKETKAELHQLSGGEKKKK	360
Db	301	DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAIEIYVNSSFYKETKAELHQLSGGEKKKK	360

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Qy      361  ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFGLKNDS  420
        |||
Db      361  ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFGLKNDS  420

Qy      421  TGIQNRAGVLFFLTNNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP  480
        |||
Db      421  TGIQNRAGVLFFLTNNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP  480

Qy      481  MTMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLL  540
        | |||
Db      481  MRMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLL  540

Qy      541  MTICFVFMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFCPGLNATGN  600
        |||
Db      541  MTICFVFMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFCPGLNATGN  600

Qy      601  NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS  655
        |||
Db      601  NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS  655
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RESULT 15

US-11-443-428A-811926

; Sequence 811926, Application US/11443428A

; Publication No. US20070083334A1

; GENERAL INFORMATION:

; APPLICANT: Mintz, Liat

; APPLICANT: Xie, Hanqing

; APPLICANT: Dahari, Dvir

; APPLICANT: Levanon, Erez

; APPLICANT: Freilich, Shiri

; APPLICANT: Beck, Nili

; APPLICANT: Zhu, Wei-Yong

; APPLICANT: Wasserman, Alon

; APPLICANT: Hermesh, Chen

; APPLICANT: Azar, Idit

; APPLICANT: Bernstein, Jeanne

; TITLE OF INVENTION: METHODS AND SYSTEMS USEFUL FOR ANNOTATING BIOMOLECULAR SEQUENCES

; FILE REFERENCE: 02/23929

; CURRENT APPLICATION NUMBER: US/11/443,428A

; CURRENT FILING DATE: 2006-05-31

; NUMBER OF SEQ ID NOS: 1034312

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 811926

; LENGTH: 655

; TYPE: PRT

; ORGANISM: Homo sapiens

US-11-443-428A-811926

Query Match 99.8%; Score 3346; DB 6; Length 655;  
Best Local Similarity 99.8%; Pred. No. 2.2e-287;  
Matches 654; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Qy      1  MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE  60
        |||
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Db	1	MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE	60
Qy	61	KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPANFKCN	120
Db	61	KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPANFKCN	120
Qy	121	SGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT	180
Db	121	SGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT	180
Qy	181	QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIF	240
Db	181	QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIF	240
Qy	241	SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Db	241	SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Qy	301	DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK	360
Db	301	DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK	360
Qy	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFGLKNDS	420
Db	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFGLKNDS	420
Qy	421	TGIQNRAGVLFFLTNNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP	480
Db	421	TGIQNRAGVLFFLTNNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP	480
Qy	481	MTMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLL	540
Db	481	MRMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLL	540
Qy	541	MTICFVFMFIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFPCPLNATGN	600
Db	541	MTICFVFMFIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFPCPLNATGN	600
Qy	601	NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS	655
Db	601	NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS	655

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Job time : 257 secs